

CLAIMS

What is claimed is:

1. A motor rotor including a magnetic yoke and a rubber magnet provided in the magnetic yoke, wherein the motor rotor is characterized in that a first surface of the rubber magnet facing the magnetic yoke has at least one first pattern.
2. A motor rotor according to claim 1, further comprising:
 - an adhesive layer provided between the rubber magnet and the magnetic yoke.
3. A motor rotor according to claim 1, wherein the first pattern includes a notch pattern.
4. A motor rotor according to claim 1, wherein the first pattern includes an embossing pattern.
5. A motor rotor according to claim 1, wherein the rubber magnet further comprises a second surface opposite to the first surface having at least one second pattern.
6. A motor rotor according to claim 5, wherein the second pattern includes a notch pattern.
7. A motor rotor according to claim 5, wherein the second pattern includes an embossing pattern.
8. A method of manufacturing a motor rotor, comprising:
 - selecting a rubber magnet;
 - forming at least one first pattern on a first surface of the rubber magnet;
 - bending the rubber magnet into a shape corresponding to an inner surface of a magnetic yoke with the first surface facing outside; and
 - placing the rubber magnet into the magnetic yoke.
9. A method of manufacturing a motor rotor according to claim 8, further comprising:
 - providing an adhesive layer on the first surface of the rubber magnet before placing the rubber magnet into the magnetic yoke.
10. A method of manufacturing a motor rotor according to claim 8, wherein the first pattern includes a notch pattern.
11. A method of manufacturing a motor rotor according to claim 8, wherein the first pattern includes an embossing pattern.

12. A method of manufacturing a motor rotor according to claim 8, further comprising:

forming at least one second pattern on a second surface of the rubber magnet in which the second surface is opposite to the first surface.

5 13. A method of manufacturing a motor rotor according to claim 12, wherein the second pattern includes a notch pattern.

14. A method of manufacturing a motor rotor according to claim 12, wherein the second pattern includes an embossing pattern.

15. A method of manufacturing a motor rotor according claim 8, further comprising:

magnetizing the rubber magnet.

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